

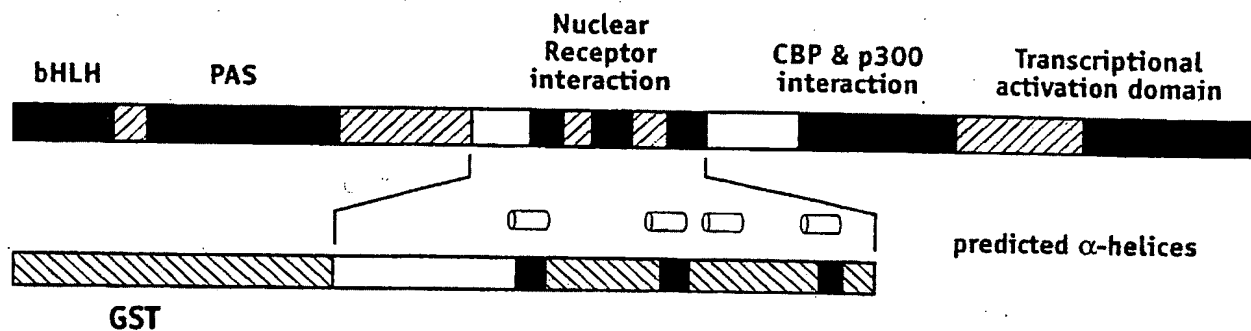


FIGURE 6



		Nuclear Receptor interaction	CBP & p300 interaction	Transcriptional activation domain
bHLH	PAS			
		1	2	3
1	SEQ ID NO: 5	Grip1	AEGHSRLHDSKGQTKLLQLLTTKSEQMEPSPLAS	
	SEQ ID NO: 8	Tif2	ADGQSRLHDSKGQTKLLQLLTTKSEQMEPSPLAS	
	SEQ ID NO: 11	NcoA-2	AEGHSRLHDSKGQTKLLQLLTTKSEQMEPSPLPS	
	SEQ ID NO: 14	RAC3	AENQRGPLESKGHKKLLQLLTCSSEDRGHSSLTN	
	SEQ ID NO: 17	AIB1, TRAM-1	AENQRGPLESKGHKKLLQLLTCSSEDRGHSSLTN	
	SEQ ID NO: 20	p/CIP	SETPRGPLESKGHKKLLQLLTCSSEDRGHSSLTN	
	SEQ ID NO: 23	SRC1	SEGDSKY--SQTSHKLVQLLTTTAEQQLRHADID	
	SEQ ID NO: 26	ConsensusS.....KlhQLLT,....	
2	SEQ ID NO: 6	Grip1	PGSTHGTSLSKEKHKILHRLLQDSSSPVDLAKLTA	
	SEQ ID NO: 9	Tif2	SGSTHGTSLSKEKHKILHRLLQDSSSPVDLAKLTA	
	SEQ ID NO: 12	NcoA-2	PGSTHGTSLSKEKHKILHRLLQDSSSPVDLAKLTA	
	SEQ ID NO: 15	RAC3	TSNMHGSLLOEKHRILHKLLQNGNSPAEVAKITA	
	SEQ ID NO: 18	AIB1, TRAM-1	TSNMHGSLLOEKHRILHKLLQNGNSPAEVAKITA	
	SEQ ID NO: 21	p/CIP	TSNVHGSLLOEKHRILHKLLQNGNSPAEVAKITA	
	SEQ ID NO: 24	SRC1	TCPSSHSSSLTERHKILHRLLOE.GSPSDITTLVS	
	SEQ ID NO: 27	ConsensusL.E+H+ILH+LLQ...SP..h..h..	
3	SEQ ID NO: 7	Grip1	EPASPKKKE---NALLRYLLDKDDTKDIGLPEIT	
	SEQ ID NO: 10	Tif2	EPVSPKKKE---NALLRYLLDKDDTKDIGLPEIT	
	SEQ ID NO: 13	NcoA-2	EPASPKKKE---NALLRYLLDKDDTKDIGLPSIT	
	SEQ ID NO: 16	RAC3	EQLSPKKKE---NNALLRYLLDRDDPSDVLAKKLQ	
	SEQ ID NO: 19	AIB1, TRAM-1	EQLSPKKKE---NNALLRYLLDRDDPSDALSKELQ	
	SEQ ID NO: 22	p/CIP	EQLSPKKKE---NNALLRYLLDRDDPSDALSKELQ	
	SEQ ID NO: 25	SRC1	ELDAAKKESKDHQLLRYLLDKDEKDLRSTPNLC	
	SEQ ID NO: 28	Consensus	E....KKKE.....LLRYLLD+D-.....h.	
Overall Consensus (SEQ ID NO: 1)	LXXLL.....		

FIGURE 7a



	NR-box1 residues 15-21 SEQ ID NO: 5	NR-box2 residues 15-21 SEQ ID NO: 6	NR box3 residues 15-21 SEQ ID NO: 7
NRb 1,2,3	KLLQLLT	ILHRLLQ	LLRYLLD
NRb 1,2	KLLQLLT	ILHRLLQ	AARAAAD
NRb 1,3	KLLQLLT	AAHRAAQ	LLRYLLD
NRb 1	KLLQLLT	AAHRAAQ	AARAAAD

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FIGURE 7b

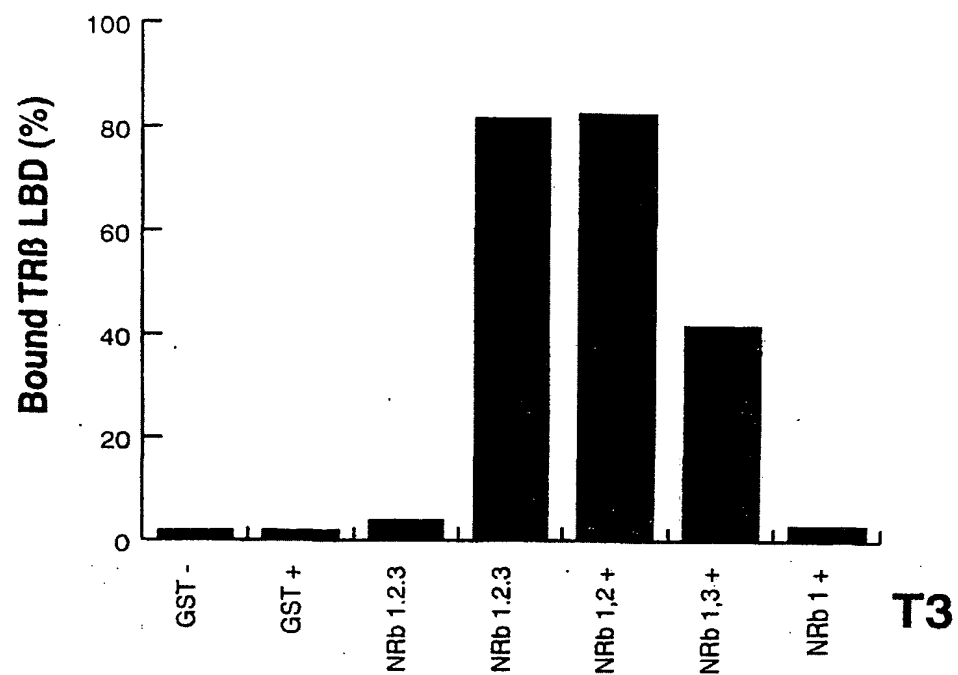


FIGURE 8a

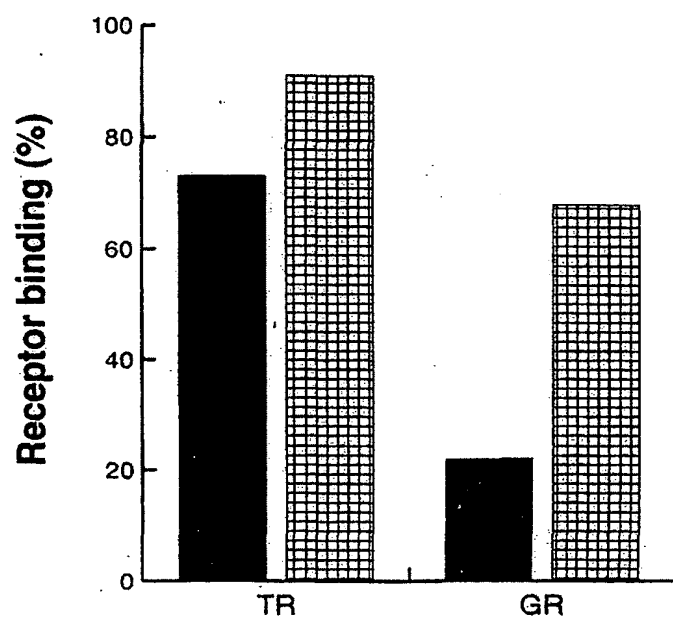
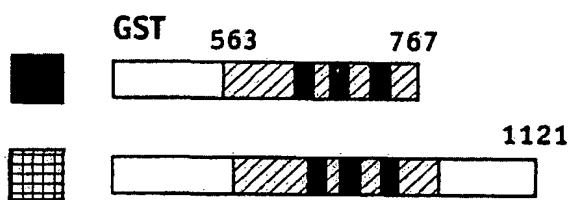


FIGURE 8b

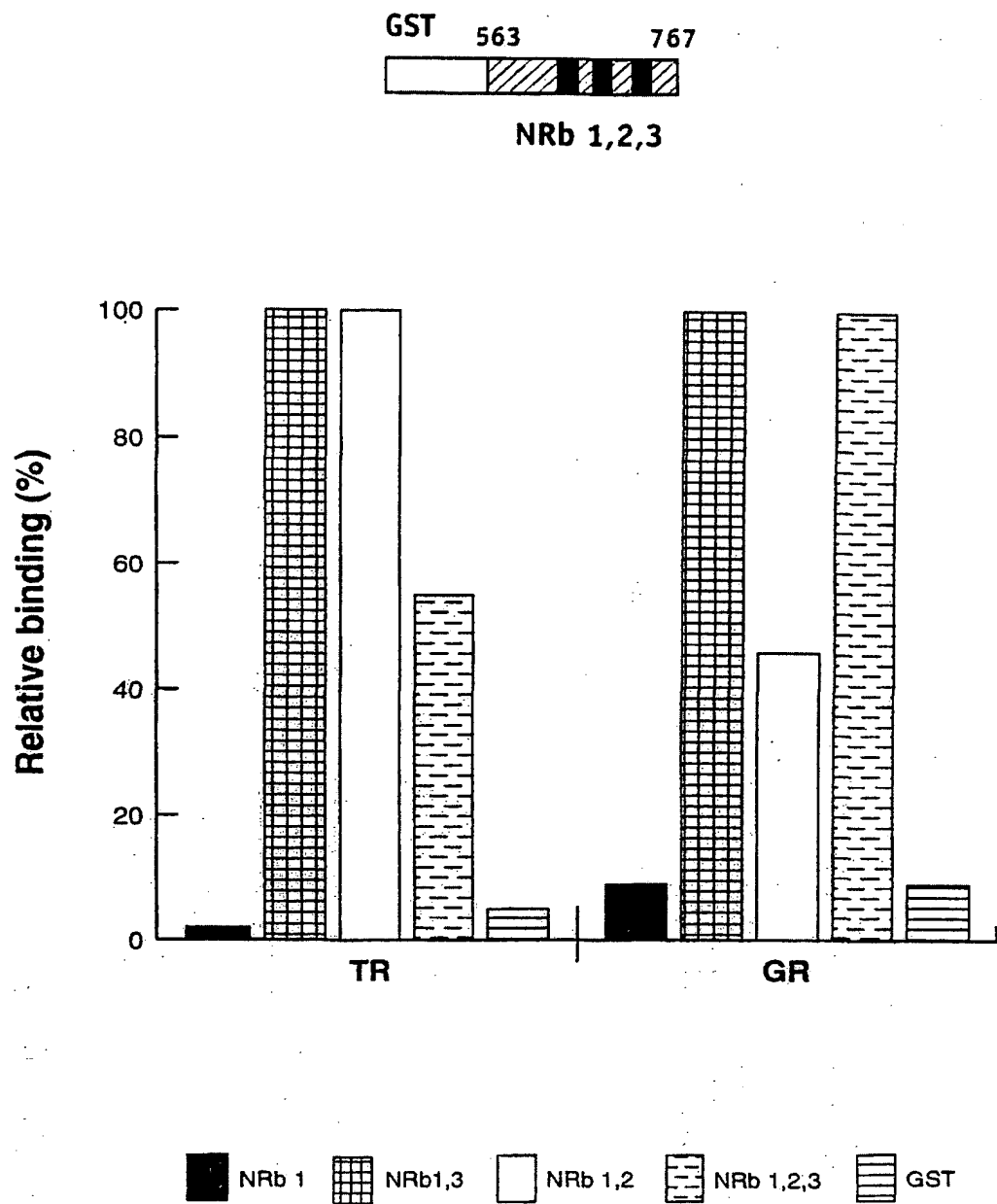


FIGURE 9a

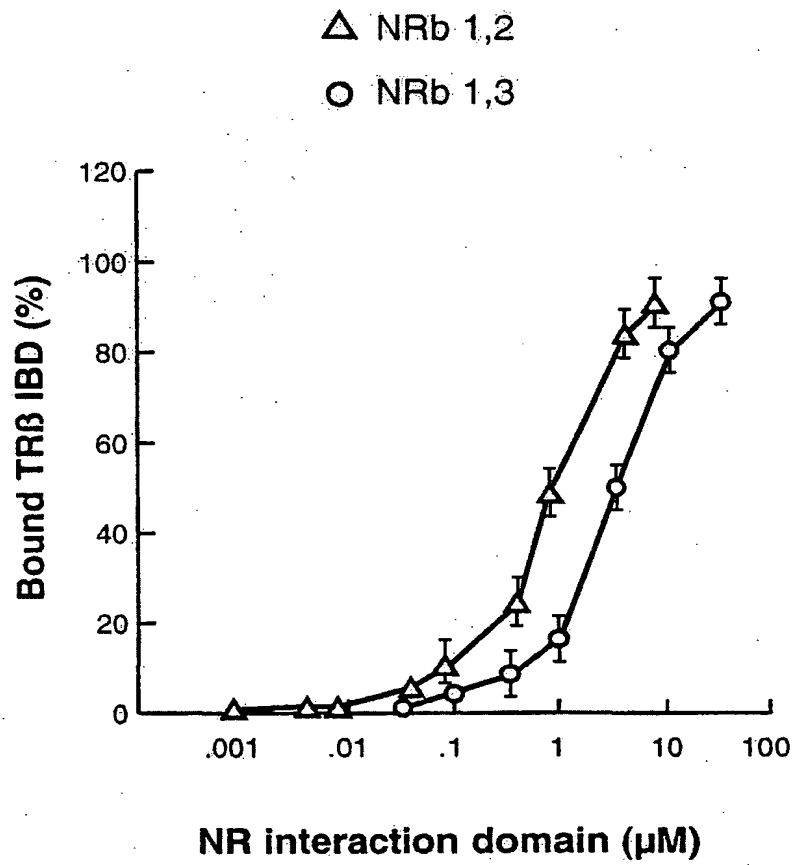
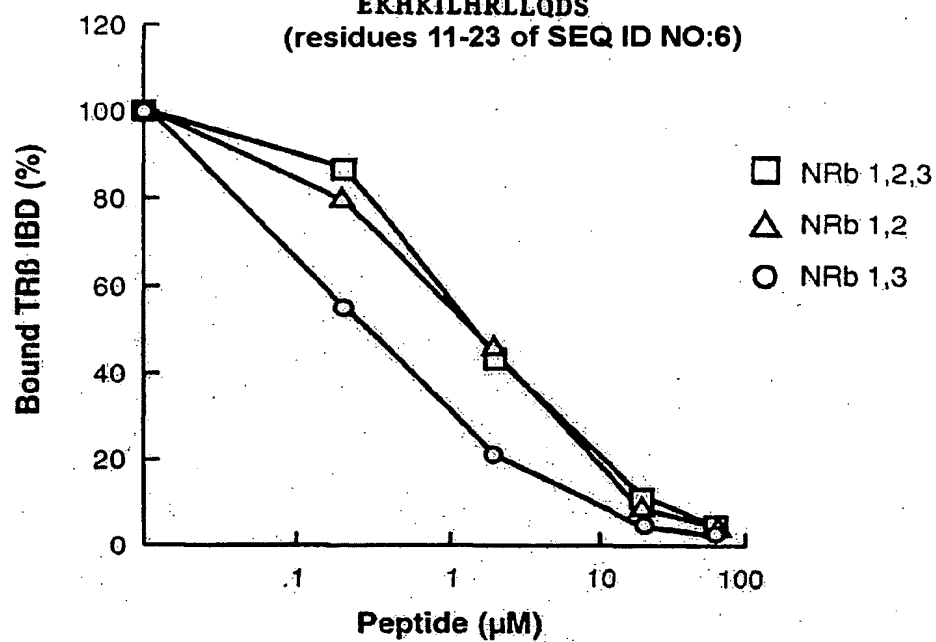


FIGURE 9b

NR-box 2 peptide
EKHKILHRLLODS
(residues 11-23 of SEQ ID NO:6)



NR-box 3 peptide
ENALLRYLLDKDD
(residues 9-21 of SEQ ID NO:7)

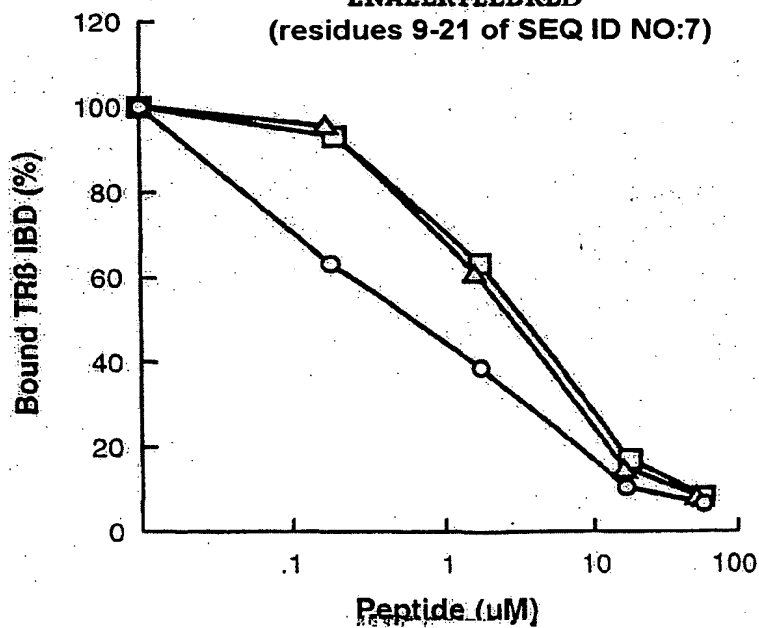
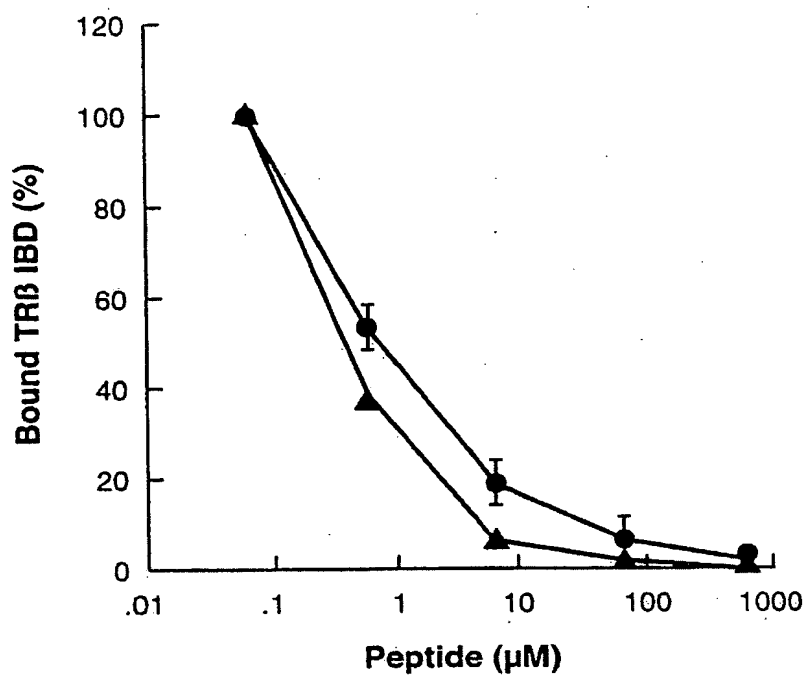


FIGURE 10a

NR-box 2



● residues 11-23

▲ residues 7-24

EKKH

TSLKEKKH

ILHRL

ILHRL

QDS

QDSS

of SEQ ID No: 6

FIGURE 10b

NR-box 3

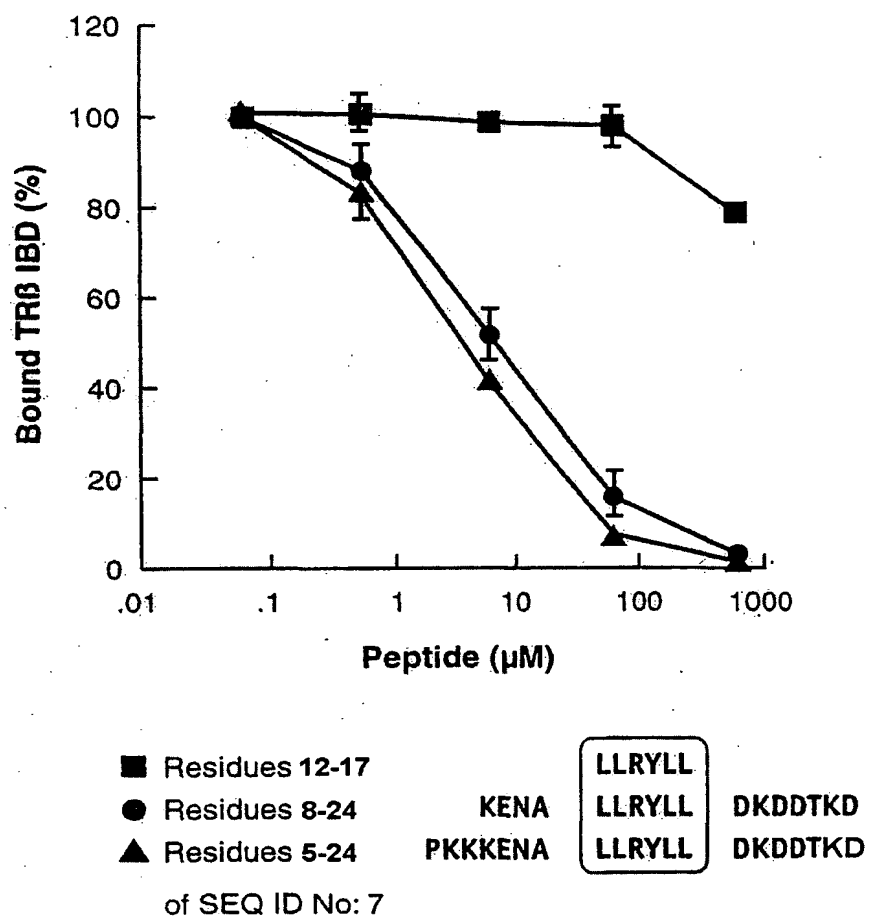
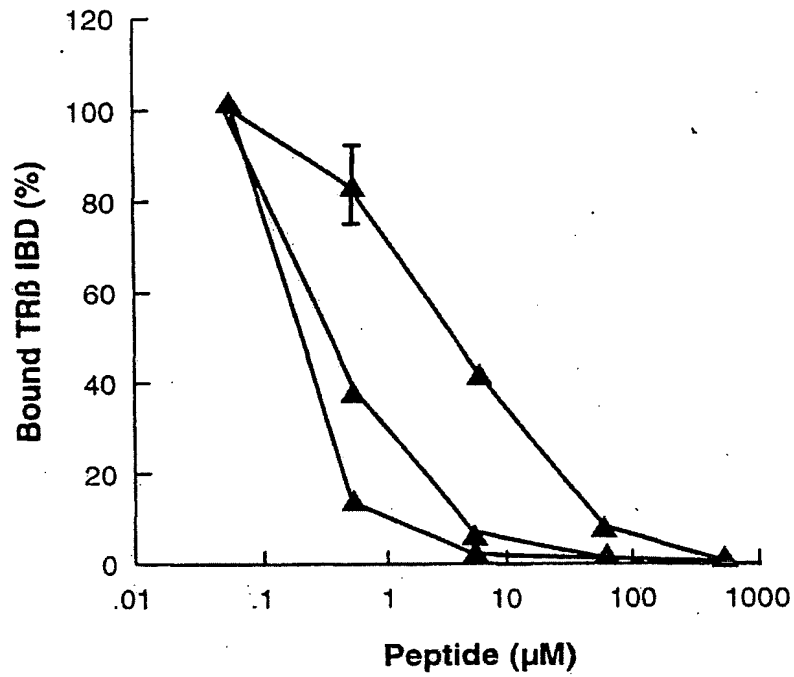
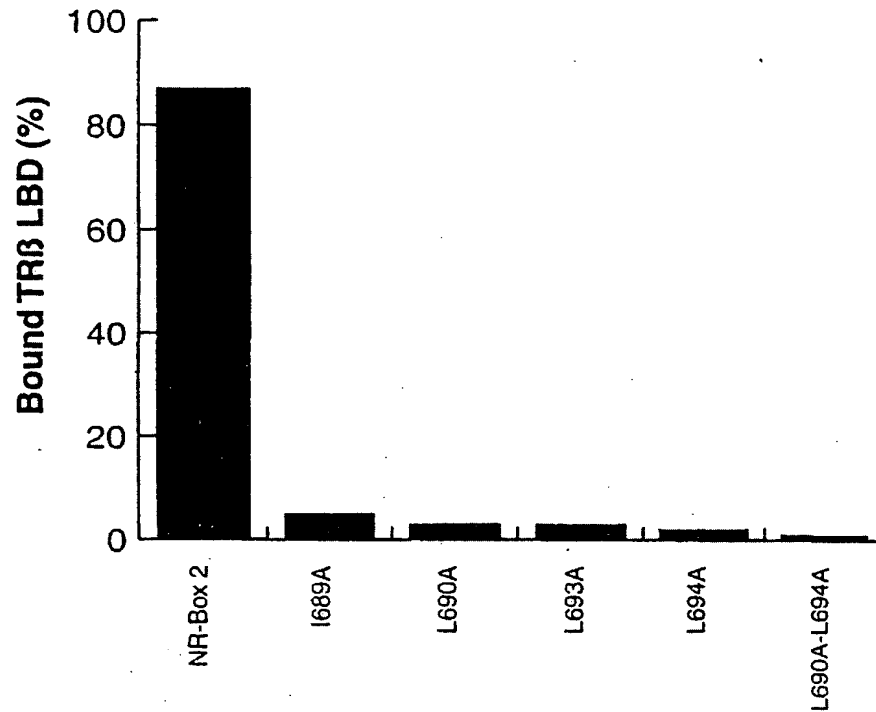


FIGURE 10c



▲ Residues 5-24 of SEQ ID No: 7	PKKKENA	LLRYLL	DKDDTKD
▲ Residues 7-24 of SEQ ID No: 6	TSLKEKHK	LLHRLL	QDSS
▲ SEQ ID No: 29	TSLKEKHK	LLRYLL	QDSS

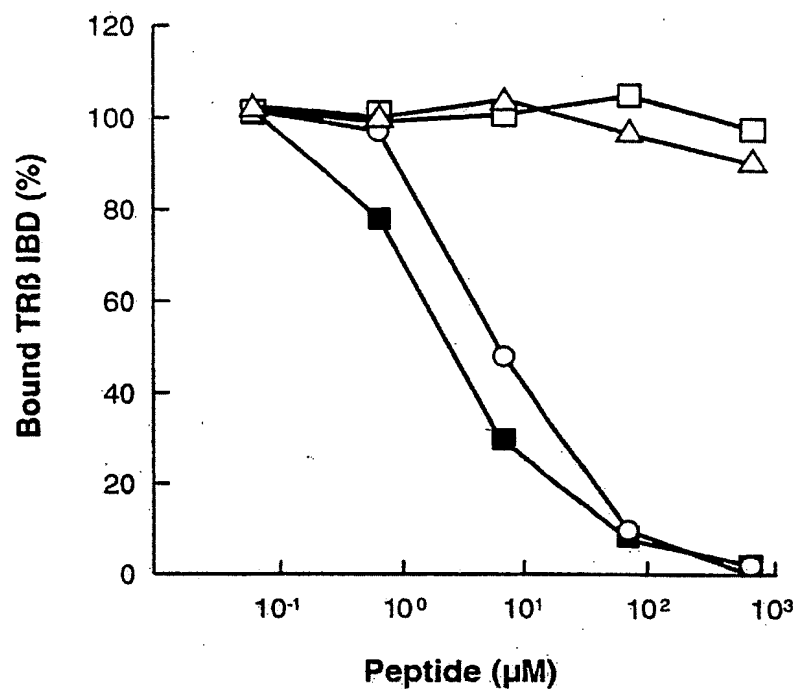
FIGURE 11a



NR-interaction domain:

NRb 1,2	ILHRLL
I689A	ALHRLL
L690A	IAHRLL
L693A	ILHRAL
L694A	ILHRLA
L690A/L694A	IAHRLA

FIGURE 11b

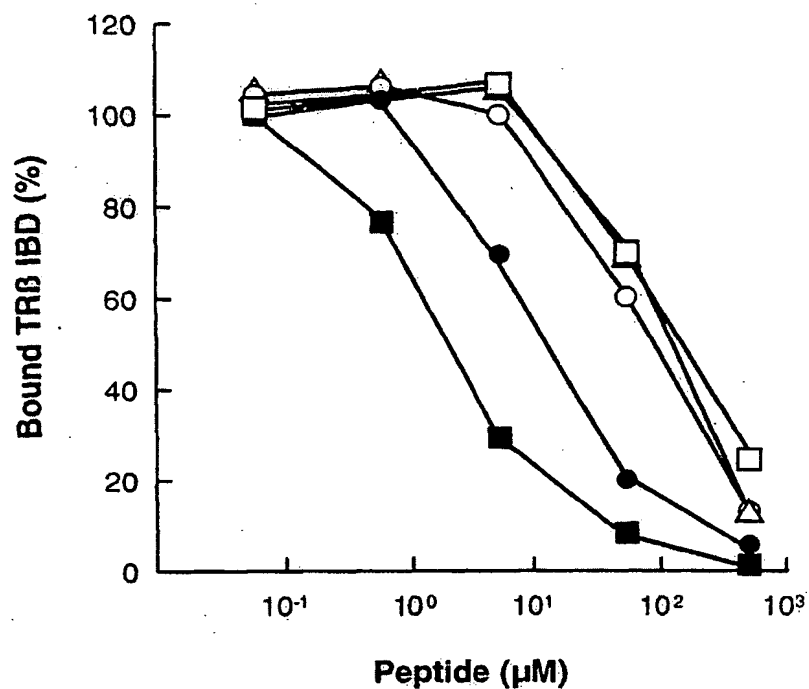


Residues 12-24 SEQ ID No: 6

NR-Box 2 peptide: KHK ILLHRLL QDSS

- ILHRLL
- AAHRLL
- ILAALL
- △ ILHRAA

FIGURE 11c



Residues 12-24 SEQ ID No: 6

NR-Box 2 peptide: KHK ILLHRLL QDSS

- ILHRLL
- FLHRLL
- IFHRLL
- ILHRFL
- △ ILHRLF

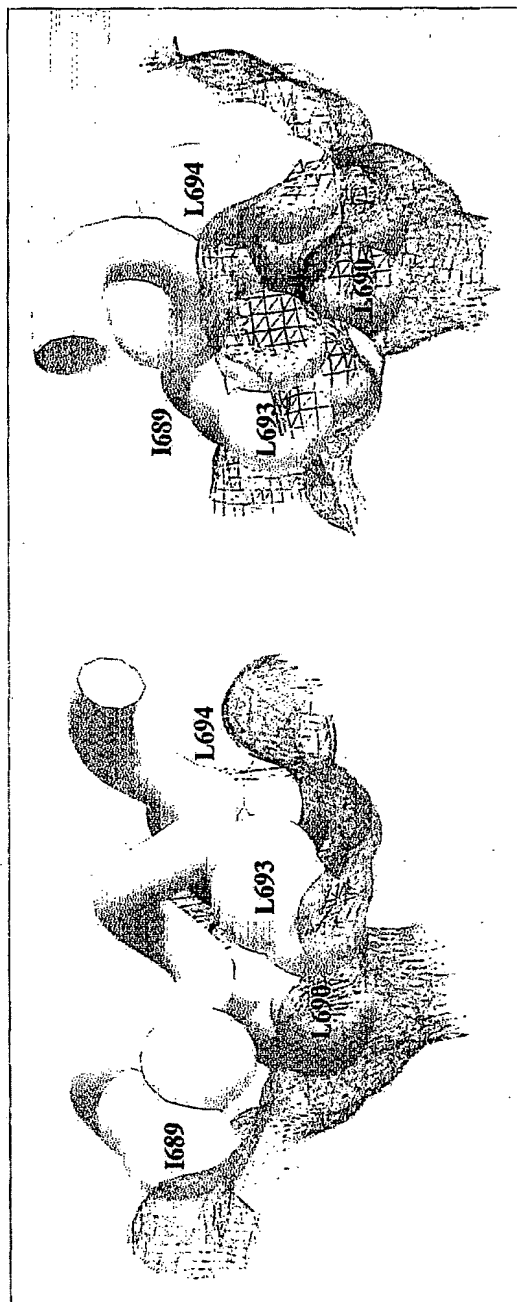


FIG. 17